

## ABSTRACT OF THE INVENTION

A telecommunications encoder for converting synchronous data to asynchronous data includes a signal processor configured to process signals to perform tasks on portions of collected synchronous data and to output asynchronous, packetized data.

- 5 Control logic, associated with the signal processor, is configured to initiate performance of tasks by the signal processor at respective start times of the tasks and configured to control collection of synchronous data based on run times of the tasks such that collection of synchronous data for a given task is completed approximately at the start time of the given task.

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